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(71) Applicant (for all designated States except US):
CARGILL INCORPORATED [US/US]; 15407 McGinty
Road West, Wayzata, MN 55391 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DE MEUTER, Pas-
cale, Adolphe** [BE/BE]; Lindenstraat 107, B-1801 Peu-
tie (BE). **ZOERB, Hans, Frederic** [US/US]; 1072 River
Drive, River Falls, WI 54022 (US).

(74) Agent: **BROYDE, Marc**; Howrey Simon Arnold & White,
City Point, One Ropemaker Street, London EC2Y 9HS
(GB).

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(54) Title: DIRECT COMPRESSIBLE TREHALOSE SOLIDS

(57) Abstract: The present invention relates to direct compressible crystalline or semi-crystalline trehalose solids having a crystal form selected from the group consisting of trehalose dihydrate and mixtures of trehalose dihydrate and anhydrous trehalose, and having a specific surface area of at least 0.25m²/g and products or tablets containing these. A process for preparing said solids comprises heating a solution of trehalose and applying shear and cooling. The trehalose solids can be applied in food, pharma and cosmetics and tablets prepared from said trehalose solids have improved tensile strength.

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